



OPERATION MANUAL

RECLAIM R32 AIR CONDITIONER

OPERATION MAINTENANCE

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RECLAIM
ENERGY

COVERING MODEL NUMBERS:

Model (Indoor and Outdoor)

CA-D100D1HWH

CA-D125D1HWH

CA-D140D1HWH

CA-D160D1HWH

CA-D180D1HWH

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IMPORTANT

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance. These units must not be installed underfloor. This appliance is charged with R32 refrigerant.

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SAFETY CONSIDERATIONS

Read this operation manual carefully before using your air conditioner, so that you gain the full benefit of its functions and avoid faults caused by incorrect operation. The precautions below are marked as warnings and cautions. Both are important — observe all of them.

Warning — failure to observe a warning may result in death, injury or damage to the equipment. **Caution** — failure to observe a caution may result in injury or damage to the equipment.

Keep this manual where any user can read it at any time. If the system changes hands, pass this manual to the new owner

1.1 WARNING

- If the air conditioner appears to be operating abnormally — for example, a smell of burning — switch it off at the main switch and contact the dealer you purchased it from. Continued operation may result in failure, electric shock or fire.
- Only a qualified installer may install the air conditioner. Ask your dealer to carry out improvements, repairs, maintenance, and any relocation and reinstallation. Incorrect work may result in water leakage, electric shock or fire.
- Never remove a fixed cover from the indoor or outdoor unit. Removing covers may expose fast-moving fan blades and electrical components at hazardous voltage.
- Guard against refrigerant leakage. Where the air conditioner is installed in an unventilated room, take proper measures to ensure the allowable refrigerant concentration per cubic metre of room volume is not exceeded — otherwise drowsiness or asphyxiation from oxygen deficiency may occur.
- For separately sold components, use only components designated by Reclaim Energy HVAC Solutions, installed by a specialist.
- Never insert objects into the openings of the indoor or outdoor unit.
- Where the air conditioner is used in combination with burners or heaters, ensure sufficient ventilation. Do not place a burner or heater where it is directly exposed to the airstream — incomplete combustion may result.
- Check the condition of the foundation blocks regularly. If they are left damaged, the unit may fall and cause injury.
- Do not place or use a flammable spray can near the air conditioner, and do not install the air conditioner where flammable gas may be present.
- Before cleaning, stop the unit and switch the power off at the main switch. Do not wash the air conditioner with water.
- Do not expose the indoor unit or controller to rain or moisture.
- Always replace a blown fuse with one of the same specification. If the correct fuse continues to blow, contact your installer or electrician.
- Avoid prolonged exposure of your body to direct streams of cold air.
- This product contains refrigerant type R32 — a flammable refrigerant, Category 1 flammable gas under the WHS Regulations and Division 2.1 flammable gas under the Transport Code. Do not charge R32 into systems other than those designated for R32, do not use oil or a reclaim cylinder other than those designated for R32, do not install pipe work with diameters other than those specified for the model, and do not omit additional refrigerant where it is required

SAFETY CONSIDERATIONS

1.2 CAUTION

- Do not use the air conditioner for purposes other than human comfort. Do not use it for special applications such as storing food, animals or plants, or for precision machinery or art objects.
- Ensure drain piping is complete. Incomplete piping may result in water leakage.
- Do not expose animals or plants directly to the airstream from the outdoor unit.
- Never operate the air conditioner without the return air filter in place. Operating without the filter allows dust to build up on the heat exchanger coil and fan motor, causing a malfunction. Damage caused this way is not covered under the Reclaim Energy HVAC Solutions warranty terms supplied with the unit.
- This appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure they do not play with the outdoor unit

1.3 MAIN SYSTEM COMPONENTS

A typical installation comprises: the indoor unit in the ceiling space; the condensate pump outlet (optional); the drain pipe; refrigerant piping; supply air ducts to the rooms; the return air grille and filter; the outdoor unit with its inlet and discharge air paths; and the wired controller

Duct layout, zoning and component positions vary by installation.

CONTROLLERS AND FIRST OPERATIONS

This equipment operates with Reclaim Energy HVAC Solutions controllers. For controller layout, button functions, fan speed selection and timer setup, see the Wired Controller section of the installation manual supplied with the unit.

2.1 BEFORE OPERATING YOUR SYSTEM FOR THE FIRST TIME

- Read the operation instructions for your controller and follow them, so the system functions correctly.
- Have your installer show you the location of the main power switch for the system. It is normally next to the outdoor unit, or in the fuse box or switchboard.
- The main switch must be turned on at least six hours before the air conditioner is operated, to warm the compressor. Failure to do so may damage the compressor. Damage caused this way is not covered under the Reclaim Energy HVAC Solutions warranty terms supplied with the unit.
- Check that nothing obstructs the air outlet of the outdoor unit. Plants, boxes, fences and similar obstacles reduce performance and increase running noise.
- Check that the air filter is fitted in the return air grille.
- Where the system is zoned, ask your installer to confirm the minimum number or combination of zones that must be open before you start the unit.

2.2 IMPORTANT NOTES ABOUT OPERATION

1.2.1 AUTOMATIC RESTART AFTER POWER FAILURE

- If the air conditioner is running when a power failure occurs, it may restart automatically in the same mode when power is restored.

1.2.2 DUAL WIRED CONTROL (OPTIONAL)

- A second wired controller can be added so the system can be set and controlled from two locations — useful in two-storey homes, with one controller upstairs and one downstairs. With dual controls fitted, the system stores the last command entered at either controller and both display the same information: if the downstairs controller is changed from 21 °C to 23 °C, the upstairs controller will also show 23 °C.

2.3 GETTING THE BEST FROM THE SYSTEM

- Set the room temperature for comfort. Avoid excessive heating or cooling.
- Use curtains or blinds to keep direct sunlight out of a room while cooling.
- Keep doors and windows closed. If they are open, conditioned air flows out and both cooling and heating performance drop.
- Never place objects near the air inlet or outlet. The unit may not work effectively, or may stop.
- Turn the main power switch off when the system will not be used for a long period — power is consumed whenever the switch is on. Turn it back on six hours before restarting the system.
- Ventilate the room regularly when the system is used for long periods.

OPERATING GUIDANCE AND RANGE

3.1 OPERATING RANGE

COOLING	MEASUREMENT	TEMPERATURE (°C)
Indoor	DB	19 to 35
Outdoor	DB	16 to 50

HEATING	MEASUREMENT	TEMPERATURE (°C)
Indoor	DB	10 to 27
Outdoor	DB	16 to 50

3.2 NORMAL OPERATING CHARACTERISTICS

3.2.1 SOUND FROM THE AIR CONDITIONER

- A continuous low rushing sound during cooling or defrost operation is refrigerant gas flowing through the indoor and outdoor units.
- A rushing sound heard at start-up, immediately after stopping, or at the start and end of defrost operation is refrigerant stopping or changing direction.

3.2.2 DUST AND ODOURS

Dust may blow out when the unit is started after a long period out of use — this is dust that has settled inside the unit. The unit also absorbs the smell of rooms, furniture and cigarettes, and then releases it again.

3.2.3 THE CONTROLLER DISPLAY SHOWS “88”

This appears immediately after the main power switch is turned on and shows that the controller is in normal condition. It clears by itself.

TROUBLESHOOTING

Warning: Where the air conditioner is in an abnormal condition — a smell of burning, for example — switch off the main switch and contact your Reclaim Energy HVAC Solutions dealer or a Reclaim Energy HVAC Solutions appointed service centre. Continued operation may result in failure.

If any of the following occurs, take the measure shown and contact your Reclaim Energy HVAC Solutions dealer. The system must be repaired by a qualified service person.

CONDITION	MEASURE
A fuse, circuit breaker or earth leakage circuit breaker operates frequently, or the on/off switch does not work properly.	Turn off the main power switch.
Water leaks from the indoor unit anywhere other than the drain pipe.	Stop the operation.
A two-digit fault code appears on the controller screen.	Write down the fault code, stop the operation, and report the code to your dealer or service centre.

If the system does not operate properly and none of the above is evident, work through the following.

4.1 THE SYSTEM DOES NOT OPERATE AT ALL

- Check for a power failure. Wait until power is restored. If the failure occurred during operation, the system may restart automatically once supply recovers.
- Check whether a fuse has blown or a circuit breaker has tripped. Have a qualified technician check it.

4.2 THE SYSTEM STOPS AFTER OPERATING FOR A WHILE

- Check whether the air inlet or outlet of either unit is blocked. Remove the obstruction and make sure the area is well ventilated.
- Check whether the air filter is clogged. Clean it — see Maintenance.

4.3 THE SYSTEM RUNS BUT DOES NOT COOL OR HEAT SUFFICIENTLY

- Check whether the air inlet or outlet of either unit is blocked.
- Check whether the air filter is clogged. Clean it — see Maintenance.
- Check that the set temperature is within a comfortable range.
- Check the fan speed setting. If you normally run low fan speed, make sure the filter is clean.
- Check whether doors or windows are open. Close them.
- When cooling, check whether direct sunlight is entering the room. Use curtains or blinds.
- When cooling, consider whether there are more occupants or heat sources in the room than usual. Cooling performance drops as heat gain rises.

MAINTENANCE

WARNING

- There are no user-serviceable parts inside the air conditioner. Do not remove any access panel or fixed cover.
- Before cleaning, stop the unit and turn the power switch off. Otherwise electric shock and injury may result.
- Do not wash the indoor unit with water — electric shock may result. Take care when erecting scaffolding or working at height.

5.1 CLEANING THE AIR FILTER

- Always clean the air filter before use at the beginning of summer and winter. Dirt and dust caught in the filter reduce airflow, which reduces performance.
- Where the unit is in a location that collects dirt easily, clean the filter more often — once every two weeks is recommended.

The air filter and suction grille are supplied by your dealer. Ask your dealer how to clean them.

5.2 CLEANING THE AIR OUTLET GRILLE

- Clean with a soft cloth. Where stains are difficult to remove, use water or a neutral detergent.
- Do not use petrol, benzene, thinner, polishing powder or liquid insecticide. Discolouring or warping may result.
- Do not let the indoor unit get wet. Electric shock or fire may result.

5.3 STARTING AFTER A LONG SHUTDOWN

- Check that the air inlet and outlet are not blocked. Remove any obstruction.
- Clean the air filter, then refit it.
- Turn on the main power switch. The controller display appears when power is on. Turn the main switch on at least six hours before operating the unit, to protect the compressor.
- Check that the drain piping from the indoor unit is clear. During cooling, water should drip from the outlet of the indoor unit's drain piping.
- If there is no sign of water after several hours of cooling, either the drain is blocked or the humidity is low. If you think the drain is blocked, stop the air conditioner and contact your installer.

5.4 SHUTTING THE SYSTEM DOWN FOR A LONG PERIOD

- Run the system in fan mode for half a day to dry the unit out. For fan mode selection, see the Wired Controller section of the installation manual.
- Turn the main power switch off. Some power is drawn whenever the main switch is on, even when the system is not running. The controller display clears when the main switch is off.

SELF-DIAGNOSIS

In the unlikely event of a fault, the microprocessors in the indoor and outdoor units diagnose it where possible and display a two-digit fault code on the controller screen — for example, E0. If this happens, write down the fault code, switch the unit off and contact your installer. The code indicates to the installer or repairer what the problem is likely to be. The full code list is in the installation manual.'

6.1 SYMPTOMS THAT ARE NOT FAULTS

SYMPTOM	CAUSE
The system does not start immediately after the power supply is turned on.	Wait one minute while the microprocessor prepares for operation.
The outdoor unit has stopped	The room has reached the set temperature. The indoor unit switches to fan operation.
White mist comes from the outdoor unit when the system returns to heating after defrost operation.	Moisture generated by defrosting becomes steam and is discharged.
Mist comes from the indoor unit during operation.	Where the unit runs in high humidity, moist room air is cooled rapidly and condenses.
The unit stops in cooling mode and the condensate pump keeps running.	Water full protection. If the condensate level rises too high the unit shuts down to prevent leakage while the pump continues to draw water. Normal operation resumes once the level drops.
The unit buzzes at the start of operation.	The temperature controller buzzes when it starts working. The sound fades within about a minute
A purring sound about 30 seconds after start-up.	Refrigerant is not yet stable. The sound drops away as the system settles
A refrigerant rushing sound about 20 seconds after heating starts, or during defrost.	The four-way valve is changing direction. The sound stops once the valve has changed over.
A slight hissing sound during and after operation.	Gaseous refrigerant stopping, and the drainage system operating.
A creaking sound during and after operation.	Temperature change causes the front panel and other components to expand and rub
Water vapour after defrosting.	Defrosting generates water, which turns to vapour.

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